



by Arya Akhavan (July 2013)

Angles for R.I. = 1.540

$$42 + 9 \text{ girdles} = 51 \text{ facets}$$

1-fold, mirror-image symmetry

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$$L/W = 1.352 \quad T/W = 0.598 \quad U/W = 0.436$$
$$P/W = 0.594 \quad C/W = 0.193$$
$$\text{Vol.}/W^3 = 0.383$$
PAVILION

P1	41.80°	19-23-73-77	Cut to centerpoint.
P2	42.63°	33-63	Meet at cullet.
P3	43.43°	08-88	Meet at cullet.
P4	44.26°	39-57	Meet at cullet.
P5	44.63°	96	Meet at cullet.
P6	45.18°	45-51	Meet at cullet.
G1	90.00°	21-75	Set stone length.
G2	90.00°	33-63	Meet P1, P2, G1
G3	90.00°	39-57	Level girdle.
G4	90.00°	45-51	Level girdle.
G5	90.00°	96	Meet P1, P3, G1
P7	59.68°	21-75	Level girdle.
P8	69.76°	96	Level girdle.

CROWN

C1	40.00°	21-75	Set girdle width.
C2	40.00°	33-63	Level girdle.
C3	40.00°	39-57	Level girdle.
C4	40.00°	45-51	Level girdle.
C5	45.00°	96	Level girdle.
C6	35.00°	01-95	Meet G1, G5, C1, C5
C7	35.00°	20-22-74-76	Meet G1, G5, C1, C5, C6; G1, G2, C1, C2
C8	32.00°	36-60	Meet G2, G3, C2, C3
C9	32.00°	48	Meet G4, C4
C10	25.00°	45-51	Meet C3, C4, C8, C9
C11	25.00°	39-57	Meet C3, C4, C8, C9, C10
C12	22.45°	21-75	Meet C1, C7; C2, C7, C8
C13	32.39°	96	Meet C5, C6
T	0.00°	Table	Meet C9, C10; C8, C11, C12; C6, C12, C13

Works in materials from quartz to rutile ($RI = 1.54 - 2.62$) with no changes, but I prefer it in honey topaz.

Suggested length = 8-15 mm

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